

## Message Text

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ACTION OES-06

INFO OCT-01 IO-13 ISO-00 SSO-00 NSCE-00 USIE-00 INRE-00  
ACDA-10 CIAE-00 INR-07 L-03 NSAE-00 NSC-05 EB-07  
NRC-07 FEAE-00 DODE-00 PM-04 H-02 PA-02 PRS-01 SP-02  
SS-15 AF-08 ARA-10 EA-09 EUR-12 NEA-10 OMB-01 TRSE-00  
/135 W

-----291722Z 022821 /44

O 291639Z DEC 76

FM USMISSION IAEA VIENNA

TO SECSTATE WASHDC IMMEDIATE 8503

INFO USERDA WASHDC IMMEDIATE

USERDA GERMANTOWN

UNCLLAS SECTION 1 OF 2 IAEA VIENNA 10503

PASS IO/SCT

EO 11652: NA

TAGS: IAEA, EAID, TECH, US

SUBJECT: ADDITIONAL EQUIPMENT GRANTS TO IAEA FOR 1976

REF: A) STATE 303751, B) OSTERBERG/CONGDON LETTER DATED  
NOV. 12, 1976

1. MISSION HAS EXTENDED OFFER REFTEL PARA 1 AS PART  
OF U.S. CONTRIBUTIONS IN KIND IN 1976 AND HAS  
RECEIVED VERBAL ACCEPTANCE OF OFFER. LETTER OF  
ACCEPTANCE IN PREPARATION AND SHOULD BE RECEIVED  
SHORTLY.

2. MISSION HAS INFORMALLY CONACTED IAEA ABOUT  
ADDITIONAL ASSISTANCE PROPOSED REFTEL PARA 3 AND  
DETERMINED THAT IAEA UNABLE TO ACCEPT GIFT OF  
GREENHOUSE FOR SEIBERSDORF LAB DUE TO INSTALLATION  
COSTS WHICH ARE PROJECTED TO EQUAL THAT OF GREEN-  
HOUSE. THE JOINT DIVISION HAS PROPOSED SUBSTITUTION  
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OF THE FOLLOWING EQUIPMENT FOR SEIBERSDORF LISTED  
IN ORDER OF PRIORITY:

A. PHYTOTRON PREFERABLY WITH CHAMBER ADAPTED  
TO CONTROL GAS PHASE ACCORDING TO FOLLOWING  
SPECIFICATIONS: 10-50 DEGREE C. TEMP. RH CONTROL,

50,000- 100,000 LUX LIGHTING, 50 LITERS CAPACITY.  
PERCIVAL MFG. CO. MODEL 7 PREFERRED BUT HOTPACK  
INC. MODEL 1709 ALSO ACCEPTABLE. COST ESTIMATE  
\$10,000.

B. RATIONOMETER MANUFACTURED BY ARGONNE  
NATM. LAB. COMPATIBLE WITH HITACHI PEAK READING MASS  
SPECTROMETER FOR READING CONSECUTIVE PEAK VOLTAGES  
(ION CURRENT BEAM), TEMPORARILY STORE FIRST VOLTAGE  
DATA, AND CALCULATE RATIO BETWEEN MAJOR AND MINOR  
BEAMS, WITH DIGITAL DISPLAY AND PRINTOUT OF EACH  
VOLTAGE AND CALCULATED RATIO AND AT END OF SEQUENCE  
AUTO PRINTOUT OF RATIO. ALSO SPECIFIED ARE AUTO-  
RANGING WITH MULTIPLE APPLICATION TO EQUALIZE  
MAJOR AND MINOR BEAMS WITH ACCURACY 1 IN 10,000  
VOLTAGE UNITS. COST ESTIMATE- \$6,000.

C. REFRIGERATED CENTRIFUGE MODEL PR 6000 FOR  
208/240 VAC 50 HZ MANUFACTURED BY DAMON/ IEC

DIVISION, 300 SECOND AVEN., NEEDHAM HTS., MA. WITH  
FOLLOWING ACCESSORIES: 6 PLACE WINDHSHIELDED  
HORIZONTAL ROTOR- CAT. NO. 981, 12 PLACE  
HORIZONTAL ROTOR CAT. NO. 253? 6 SETS 15 M1 17.3  
ID X 103 SS SHIELD CAT. NO 302, 6 SETS 3/8 INCH  
TRUNION RINGS CAT. NO 310, 1 CASE OF 12, 1000 MIL  
POLYPROPYLENE BOTTLES CAT. NO. 2939 6 PLACE  
HORIZONTAL ROTOR CAT. NO. 978, AND ONE PLG.  
PLASTIC CAPS CAT. NO. 1647. ESTIMATED TOTAL  
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COST- D6,430.

D. AUTOMATIC SEED COUNTER, MANUFACTURER NOT  
SUGGESTED, WITH COUNTING RATE VARIABLE FROM 500  
TO 1000 SEEDS PER MIN. ADJUSTABLE FOR SEED SIZES  
RANGING FROM RAPE TO CORN, AND HAVING MECHANISM  
TO PRESET THE NUMBER OF SEEDS COUNTED, AND IF  
AVAILABLE ACCESSORY TO AUTOMATICALLY WEIGH AND  
PRINT WEIGHTS OF COUNTED SAMPLES. ESTIMATED TOTAL  
COST- \$5,000.

E. FREEZE DRYER MANUFACTURED BY REFRIGERATION  
FOR SCIENCE, INC., 74 ALABAMA AVE., ISLAND PARK

NEW YORK, ATOMO-VAC MODEL 5012, 5 LITER CAPACITY.  
COST ESTIMATE- \$7,000-\$8,000.

F. ZOOM STEREOSCOPE MODEL 561C-D3 MANUFACTURED

BY AMERICAN OPTICAL, EGGERT ROAD, BUFFALO, WITH  
STARLIGHT ILLUMINATOR NO. 363V, MEASURING EYEPieces  
NO. 1430, AND STAGE MICROMETER NO. 1400. COST  
ESTIMATE- \$1,000.

G. DIGITAL BALANCE- CHAN ELECTRO BALANCE (DTL)  
NO. 7550 OR EQUIVALENT WITH 100 MG. CAPACITY AND  
PLUS MINUS .01 MG. SENSITIVITY. COST ESTIMATE-  
\$2,000-\$3,000.

H. STORAGE CABINET FOR STERILE EQUIPMENT SPEC-  
IFICATIONS UNKNOWN. ESTIMATED COST- \$500.  
THE LABORATORY AT SEIBERSDORF FOR OTHER THAN  
FOR THE JOINT DIVISION HAS INDICATED INTEREST IN  
OBTAINING GRANTS OF THE FOLLOWING EQUIPMENT.

I. GERMANIUM INTRINSIC DETECTOR WITH BERYLLIUM  
WINDOW FOR LOW ENERGY X-RAYS. COST ESTIMATE- \$10,00.  
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J. AMPLIFIER WITH HIGH COUNT CAPABILITY AND  
ULTRA LOW NOISE AT FRONT END.

COST ESTIMATE- \$1,100.

K. STORAGE OSCILLOSCOPE- TEKTRONICS MODEL  
7834 WITH AMPLIFIER AND TIMING UNIT. COST ESTIMATE  
\$12,000.

L. GERMANIUM LITHIUM DETECTOR OF 60 CC  
CAPACITY (12 PERCENT EFFICIENT 2 KEV AT 1.33 MEV  
PEAK TO OMPTON 40: 1 WITH CRYOSTAT. COST  
ESTIMATE- \$12,000.

M. PERKIN ELMER EDL SYSTEM FOR USE WITH  
MODEL 460 ATOMIC ABSORPTION SPECTROMETER WITH  
POWER SUPPLY AND 10 EDL LAMPS. COST ESTIMATE-  
\$5,000.

F. MACHINE FOR WORKSHOP (SECD LATER).  
COST ESTIMATE- 5,000.

G. DIGITAL BALANCE- CAHN ELECTRO BALANCE  
(DTL) NO. 7550 OR EQUIVALENT WITH 100 MG. CAPACITY  
AND PLUS MINUS .01 MG. SENSITIVITY. COST ESTIMATE-  
\$2,000-\$3,000.

H. STORAGE CABINET FOR STERILE EQUIPMENT  
SPECIFICATIONS UNKNOWN. ESTIMATED COST -\$500.

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INFO USERDA WASHDC IMMEDIATE  
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PASS/IOSCT

3. IT HAS ALSO BEEN PROPOSED THAT A GRANT TO THE  
LAB AT MONACO BE MADE OF A FREEZE DRYING APPARATUS  
AS DESCRIBED IN REF B. REF B SENT TO AMMONS  
WITH TRANS. SLIP NOV. 19 SHOWS ESTIMATED COST \$3,000-  
\$5,000, MONACO ALSO WISHES LOW LEVEL BETA COUNTER TO BE BUILT  
BY HASL FROM PURCHASED AND HASL BUILT COMPONENTS  
LISTED BELOW. (SEE LTR. HARLEY/OSTERBERG DTD NOV. 1, 1976,  
COPY TO H. HOLLISTER, ERDA).

A. COMMERCIAL EQUIPMENT: PORTANIM- BERKELEY  
NUCLEONICS AP-2, HV POWER SUPPLY (SCINT)-  
TENNELEC TC 958, HV POWER SUPPLY (GM)- TENNELEC  
TC 947, SCALER- TENNELEC TC 540 A, TIMER-  
TENNELEC TC 545 A. TOTAL COST OF COMMERCIAL  
EQUIPMENT- \$2,250.

B. HASL- BUILT EQUIPMENT: LOW LEVEL BETA  
MODULE HASL, GERARD AND PRE AMPS; GM GUARD TUBE,  
SINCT. PROBE AND PRE AMPS, PHOLMULTIPLIER TUBE.,  
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TOTAL COST OF HASL BUILT EQUIPMENT- \$1,625.

C. ASSEMBLY LABOR- 120 HOURS AT \$15 PER  
HOUR (MISSION GUESS AT RATE) \$1,800.

D. 250 POUNDS MERCURY AT \$20 PER POUND-  
\$5,000.

E. COSTS OF TRANSPORTATION, SET UP AND  
TRAINING OF STAFF AT MONACO UNKNOWN.  
TOTAL ESTIMATED COST OF LOW BETA COUNTER-  
\$11,000.

4. MISSION HAS EXPLORED POSSIBILITY OF ADDITIONAL  
GRANTS UNDER THE 76 TECHNICAL  
ASSISTANCE PROGRAM WITH AGENCY (KENYERES) AND  
FINDS THAT GRANT COULD BE MADE AS FOLLOWS IN ORDER  
OF PRIORITY.

CYRUS. USE OF RADIOISOTOPES IN AGRICULTURE.  
THIS PROJECT ORIGINALLY MUCH LARGER- ONLY \$12,00  
IN EQUIPMENT NOW REMAINS.

GUATEMALA. RADIOIMMUNOASSAY- \$30,000 PLUS  
EXPERT FOR THREE MONTHS \$9,000. TOTAL OF  
\$39,000.

TURKEY. RADIOISOTOPES IN MEDICINE- \$8,000  
PLUS EXPERT FOR THREE MONTHS AT \$9,000. TOTAL OF  
\$17,000.

THE COUNTRIES SUGGESTED ARE NPT PARTIES WITH THE  
EXCEPTION OF TURKEY WHICH HAS SIGNED BUT NOT YET  
RATIFIED THE NPT

5. THE FOREGOING PROPOSALS SUBSTANTIALLY EXCEED  
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IN VALUE THE \$90,000 STATED TO BE AVAILABLE  
IN REF A AND HAVE BEEN ELICITED WITH THE CLEAR  
UNDERSTANDING THAT A DECISION WILL BE MADE AS TO  
EXACTLY WHAT GRANTS WILL BE MADE.

6. MISSION RECOMMENDS THAT FIRST PRIORITY BE GIVEN  
TO THE EQUIPMENT PORTION OF TECHNICAL  
ASSISTANCE PROJECTS UNDER THE REGULAR PROGRAM, IN  
PARTICULAR TO PROJECTS IN GUATEMALA AND CYPRUS AS  
NPT PARTIES AND NEXT TO TURKEY AS AN NPT SIGNATORY AND  
THAT NEXT PRIORITY BE GIVEN TO THE EQUIPMENT FOR

MONACO WITH THE EXCEPTION OF THE MERCURY WHICH THE AGENCY ASHOLD BE ASKED TO SOLICIT FROM SPAIN AS A GIFT IN KIND. FOR SEIBERSDORF, MISSION RECOMMENDS A AND B ITEMS PARA 2 FOR THE JOINT DIVISION AND I AND J ITEMS PARA 2 FOR OTHER SIEBERSDORF PROJECTS, FOR USE IN RADIOISOTOPE STANDARDIZATION. ANY REMAINING FUNDS COULD BE APPLIED TO THE NEEDS OF THE JOINT DIVISION WHICH ARE LOWER COST ITEMS.

7. QUESTIONS CONCERNING BANGLADESH PROJECT FOR DESIGN OF RESEARCH REACTOR HAVE BEEN DISCUSSED INFORMALLY WITH KENYERES AND FORMALLY BROUGHT TO ATTENTION OF IAEA BY LETTER. KENERES UNABLE TO CLARIFY INTENDED USE OF ANALOGUE COMPUTER BEYOND THAT STATED IN PROJECT. I.E., TO STUDY DESIGN OF CONTROL SYSTEM FOR 1 MW RESEARCH REACTOR BEING DESIGNED AND BUILT BY BANGLADESH AEC. LABOWITZ

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** EQUIPMENT, NUCLEAR ENERGY, FOREIGN ASSISTANCE, INTERNATIONAL ORGANIZATIONS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 29 DEC 1976  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
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**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
**Film Number:** D760475-0211  
**From:** IAEA VIENNA  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1976/newtext/t1976127/aaaaafze.tel  
**Line Count:** 294  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Office:** ACTION OES  
**Original Classification:** UNCLASSIFIED  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 6  
**Previous Channel Indicators:** n/a  
**Previous Classification:** n/a  
**Previous Handling Restrictions:** n/a  
**Reference:** 77 STATE 303751  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** vogelfj  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 07 JUN 2004  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <07 JUN 2004 by chengls>; APPROVED <27 DEC 2004 by vogelfj>  
**Review Markings:**

Margaret P. Grafeld  
Declassified/Released  
US Department of State  
EO Systematic Review  
04 MAY 2006

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** ADDITIONAL EQUIPMENT GRANTS TO IAEA FOR 1976  
**TAGS:** EAID, TECH, US, IAEA  
**To:** STATE  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006